

# PUJAN SHRESTHA

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## PROFESSIONAL SUMMARY

AI/ML and DevOps enthusiast focused on applying machine learning and cloud-based data workflows to real-world problems. Interested in model building, automation, and scalable systems. Recently completed an MSc in Data Science and Computational Intelligence, with hands-on experience from academic projects, internship, and independent learning.

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## SKILLS

**Languages & Tools:** Python, SQL, R, Pandas, NumPy, Scikit-learn, PySpark, MLlib

**Machine Learning:** Regression, Classification, Deep Learning (CNN), Feature Engineering

**Cloud & Platforms:** AWS (Lambda, S3), Databricks, Snowflake

**Visualization:** Tableau, Matplotlib, Seaborn

**Frameworks:** Django, Tkinter

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## PROFESSIONAL EXPERIENCE

### Data Engineer (Intern) – Techkraft, Lalitpur

Jan 2024 – Jun 2024

- Built ETL pipelines with PySpark and Databricks.
- Automated workflows using AWS Lambda and S3.
- Worked with multiple data formats (Parquet, JSON, CSV).

### AWS Solutions Architect Apprentice – Adex Nepal Ltd

Jan 2025 – Mar 2025

- Completed a 3-month apprenticeship focused on AWS Solutions Architect Associate (SAA-C03).
  - Practiced designing cloud solutions using AWS services like EC2, RDS, IAM, and VPC.
  - Gained hands-on experience deploying scalable and secure systems on AWS.
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## PROJECTS

- **Forecasting Inflation in Nepal (2000–2023):** Combined time series and ML models (ARIMA, XGBoost) to predict inflation. Engineered features from economic data and evaluated models with RMSE, MAPE.
  - **University Ranking Analysis:** Used PySpark to process ranking datasets, built ML models using MLlib and scikit-learn.
  - **Autism Prediction Pipeline:** Built an end-to-end ML pipeline from EDA to model evaluation. Applied logistic regression, decision trees, and ensemble methods.
  - **Pneumonia Detection from X-rays:** Used CNN, ResNet50, DenseNet for image classification. Focused on data preprocessing, model tuning, and evaluation.
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## EDUCATION & CERTIFICATIONS

### MSc. Data Science and Computational Intelligence

Softwarica College of IT & E-commerce, Kathmandu | Mar 2023 – June 2025

**AWS Certified Solutions Architect – Associate (SAA-C03)** - April 2025

**AWS Academy Cloud Foundations** - Feb 2024

**Python with Data Science – Deerwalk College** - Nov 2021 – Feb 2022